BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

VIDYARANYAPURA SUB DIVISION

BYATARAYANAPURA DIVISION

NAME OF WORK:- IMPROVEMENTS TO ROADS AND DRAINS AT MARIYAMMA BLOCK, RAMACHANDRAPURA AND SURROUNDING AREAS IN NEW WARD NO. 14 (KUVEMPUNAGARA).

ESTIMATE COST: 12.68 LAKHS

Bruhat Bangalore Mahanagara Palike

Executive Engineer Bytarayanapura Division

Improvements to Roads and Drains at Mariyamma Block, Ramachandrapura and surrounding areas in New Ward No. 14 (kuvempunagara).

								Estimate cost	12.68 Lakhs
Sl No	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
1	Scarifying the existing bituminous road surface to a depth of 50 mm and disposal of scarified material by Mechanical Means using Hydraulic excavator with in all lifts and lead **(PWD SR 2023-24 Vol III, Item No: 3.5, Page No: 17)**								
	Basic rate	6.00							
	Area weightage 10%	0.60							
	Total Rate	6.60							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50		161.00			
	4th B Cross Rd	1	60.00	3.50		210.00			
						371.00	**Sqm**	**6.60**	2448.60
2	Earth work in surface Excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. **(PWD SR 23-24 Vol I Pg No. 8 Item No 1.12)**								
	Basic Rate	95.00							
	Area Weightage 10%	9.50							
	Total Rate	104.50							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50	0.20	32.20			
	4th B Cross Rd	1	60.00	3.50	0.20	42.00			
						74.20			
	Road Damaged Portion								
	Mariyamma Block Main Rd	1	107.00	4.20	0.20	89.88			
	Consider 25% for Damaged portion					**22.47**			
						96.67	**Cum**	**104.50**	10,102.02
3	Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 **(PWD SR 23-24 Vol III Pg no. 26 Item No. 4.17)**								
	Basic Rate	2559.00							
	Area Weightage 10%	255.90							
	Total Rate	2814.90							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50	0.20	32.20			
	4th B Cross Rd	1	60.00	3.50	0.20	42.00			
						74.20			
	Road Damaged Portion								
	Mariyamma Block Main Rd	1	107.00	4.20	0.20	89.88			
	Consider 25% for Damaged portion					**22.47**			
						96.67	**Cum**	**2814.90**	272116.38
4	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means MORTH Specification No. 502 **(PWD SR 23-24 Vol III Pg no. 31 Item No. 5.2)**								
	Basic Rate	53.00							
	Area Weightage 10%	5.30							
	Total Rate	58.30							
	Asphalt Road								

	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50		161.00			
	4th B Cross Rd	1	60.00	3.50		210.00			
						371.00			
	Road Damaged Portion								
	Mariyamma Block Main Rd	1	107.00	4.20		449.40			
	Consider 25% for Damaged portion					**112.35**			
	Profile Correction								
	Mariyamma Block Main Rd	1	107.00	4.20		449.40			
	Consider 20% for Damaged portion					**89.88**			
						573.23	**Sqm**	**58.30**	**33,419.31**
5	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects **(PWD SR 23-24 Vol III Pg no 35 Item No 5.12 (C))**								
	Basic Rate	**9449.00**							
	Area Weightage 10%	**944.90**							
	Total Rate	**10393.90**							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50	0.05	8.05			
	4th B Cross Rd	1	60.00	3.50	0.05	10.50			
						18.55			
	Road Damaged Portion								
	Mariyamma Block Main Rd	1	107.00	4.20	0.05	22.47			
	Consider 25% for Damaged portion					**5.62**			
	Profile Correction								
	Mariyamma Block Main Rd	1	107.00	4.20	0.05	22.47			
	Consider 20% for Damaged portion					**4.49**			
						28.66	**Cum**	**10393.90**	**297904.76**
6	Providing and applying Tack Coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.25 kg/m2 on the prepared bituminous surface cleaned with mechanical broom MORTH Specification No. 503 **(PWD SR 23-24 Vol III Pg no. 31 Item No 5.4)**								
	Basic Rate	**14.00**							
	Area Weightage 10%	**1.40**							
	Total Rate	**15.40**							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50		161.00			
	4th B Cross Rd	1	60.00	3.50		210.00			
	Mariyamma Block Main Rd	1	107.00	4.20		449.40			
						820.40	**Sqm**	**15.40**	**12,634.16**
7	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 percent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade,level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects **(PWD SR 23-24 Vol III Pg no 38 Item No 5.16 (C))**								
	Basic Rate	**10954.00**							
	Area Weightage 10%	**1095.40**							
	Total Rate	**12049.40**							
	Asphalt Road								
	Full Road Work								
	Mariyamma Block								
	4th A Cross Rd	1	46.00	3.50	0.04	6.44			
	4th B Cross Rd	1	60.00	3.50	0.04	8.40			
	Mariyamma Block Main Rd	1	107.00	4.20	0.04	17.98			
						32.82	**Cum**	**12049.40**	**395413.11**

8	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes **(PWD SR 23-24 Vol III Pg No. 67 Item No 8.15)**								
	Basic Rate	**530.00**							
	Area Weightage 10%	**53.00**							
	Total Rate	**583.00**							
	Asphalt Road								
	Mariyamma Block								
	4th A Cross Rd	2	46.00	0.10		9.20			
	4th B Cross Rd	2	60.00	0.10		12.00			
	Mariyamma Block Main Rd	2	107.00	0.10		21.40			
						42.60	**Sqm**	**583.00**	**24,835.80**
9	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 15 km = 150 t.km **(PWD SR 2023-24 Vol-III Page No. 5, Item No.1.4A)**								
	Basic Rate	**180.00**							
	15KM Lead = 12*15	**180.00**							
	Area Weightage 10%	18.00							
	Total Rate	**198.00**							
	Qty frm Item No-02		96.67	1.28		123.74			
						123.74	**t.Km**	**198.00**	24,500.04
								Total Construction Cost	1073374.19
								18% GST for Construction Cost	193207.35
								Sub Total - 1	1266581.54
								Utility Shifting,Miscellaneous and Rounding off	1,418.46
								GRAND TOTAL	1268000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2023-24 and Date Rates.

Assistant Engineer
Ward No-14
BBMP Bangalore

Asst. Executive Engineer,
Vidyaranyapura Sub Division
BBMP Bangalore

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

Executive Engineer,
Byrathanahalli Division
BBMP Bangalore

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ., ಬೆಂಗಳೂರು

ADMINISTRATIVE SANCTION

Accorded for Rs. 12.68 Lakhs

Head of A/c. P1878

Div. Ref. No. 57 Date 01/02/24

AE/DM

EE(BTP) BBMP

TECHNICAL SANCTION

Accorded for Rs. 12.68 Lakhs

Head of A/c. P1878

Div. Ref. No. 31 Date 01/02/24

AE/DM

EE(BTP) BBMP

Ward No: 11/15

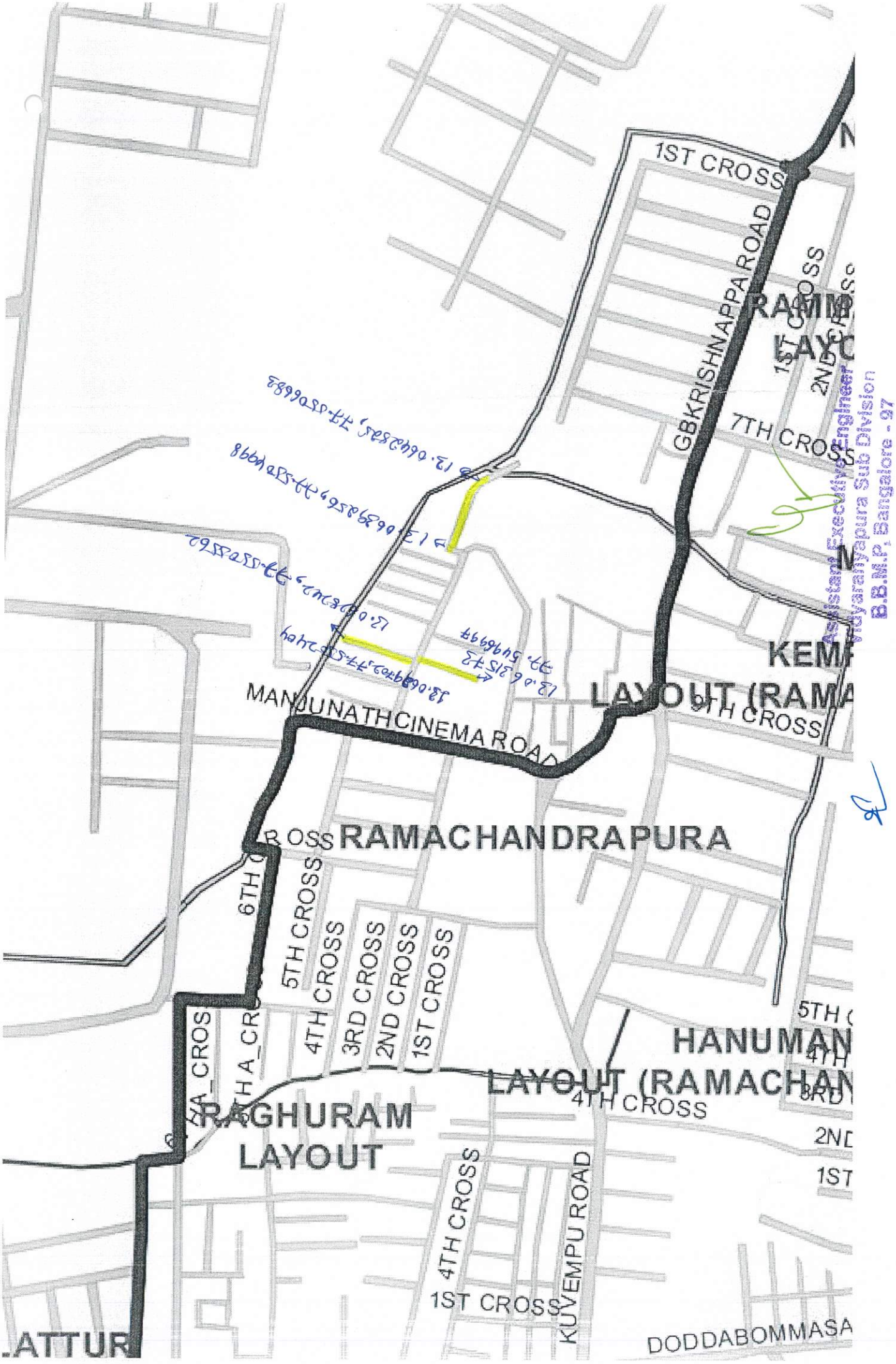
BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

SKETCH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GBKRISHNAPPA ROAD
7TH CROSS
MANJUNATHCINEMA ROAD
RAMACHANDRAPURA
6TH CROSS
5TH CROSS
4TH CROSS
3RD CROSS
2ND CROSS
1ST CROSS
RAGHURAM LAYOUT
4TH CROSS
1ST CROSS
KUVEMPU ROAD
DODDABOMMASA
Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

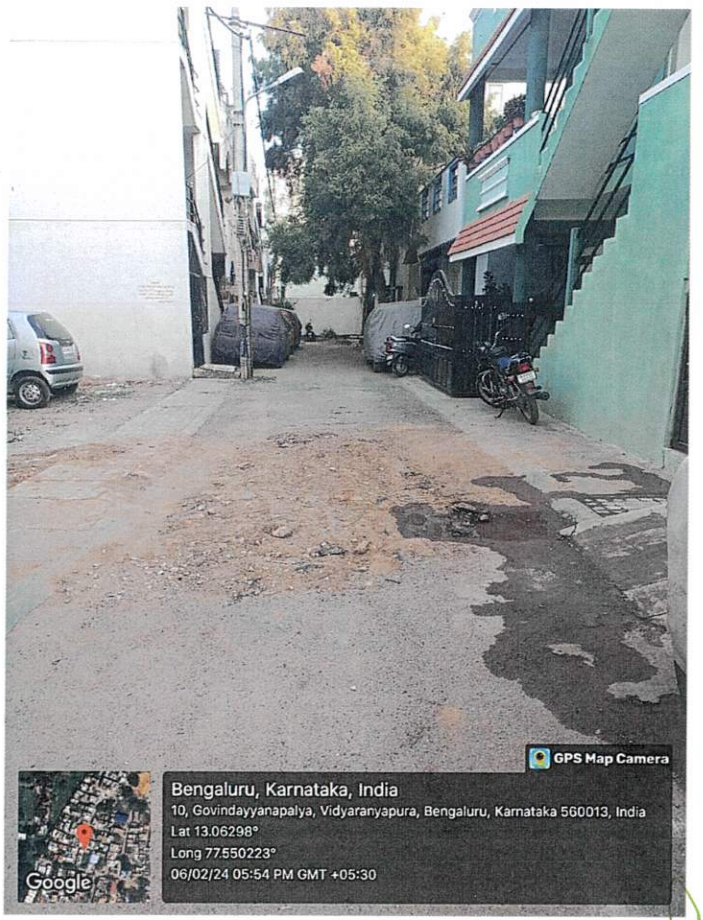
BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION : VIDYARANYAPURA

PHOTOS



Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

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